

ABSTRACT

An adhesive resin cement composition having excellent adhesion and physical properties without the application of
5 a priming material or an adhesive when it is bonded to the enamel and aesthetic properties.

A photocurable dental enamel adhesive composition comprising (A) a radically polymerizable monomer having an acid group and a structure represented by the following
10 formula (1):
$$\text{CH}_2=\text{CR}^1-\text{COO}-\text{R}^2-\text{OCO}-\text{R}^3-\text{COOH} \quad (1)$$

(R^1 is H or CH_3 , and R^2 and R^3 are each independently a divalent inert group essentially composed of C and H), (B) a monofunctional radically polymerizable monomer having a
15 molecular weight of 220 or less and a boiling point of $60^\circ\text{C}/10$ mmHg or more, (C) a carboxylic ester group-containing aromatic amine, (D) a photopolymerization initiator and (E) a bifunctional radically polymerizable monomer and optionally (F) a filler.